

CRF Errors Corrected by the STIC Systems Branch

Serial Number: 09/914,658B

CRF Processing Date: 1/22/2003
Edited by: h
Verified by: h (STIC staff)

ENTERED

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically:
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically:
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included:
- ☐ Deleted extra, invalid, headings used by an applicant, specifically:
- ☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as _____
- ☐ Inserted mandatory headings, specifically: _____
- ☐ Corrected an obvious error in the response, specifically: _____
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically:
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- ☒ Other: corrected <1507 and <1517 numeric identifiers

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.



PCT

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/914,658B

DATE: 01/22/2003

TIME: 13:34:28

Input Set : N:\vernette\09914658B.RAW

Output Set: N:\CRF4\01222003\I914658B.raw

3 <110> APPLICANT: Hobom, Gerd
 4 Flick, Ramon
 5 Menke, Anette
 6 Azze, Maysa
 10 <120> TITLE OF INVENTION: Stable Recombinant Influenza Viruses Free of Helper
 11 Viruses
 13 <130> FILE REFERENCE: Kreisler 1098
 15 <140> CURRENT APPLICATION NUMBER: US 09/914,658B
 C--> 16 <141> CURRENT FILING DATE: 2002-11-14
 W--> 18 <140> CURRENT APPLICATION NUMBER: PCT/EP00/01903B
 W--> 19 <141> CURRENT FILING DATE: 2002-11-14
 21 <150> PRIOR APPLICATION NUMBER: EP 99104519
 22 <151> PRIOR FILING DATE: 1999-03-06
 24 <160> NUMBER OF SEQ ID NOS: 26
 26 <170> SOFTWARE: Microsoft Word XP
 28 <210> SEQ ID NO: 1
 29 <211> LENGTH: 4930
 30 <212> TYPE: DNA
 31 <213> ORGANISM: Artificial Sequence
 33 <220> FEATURE:
 34 <223> OTHER INFORMATION: Description of Artificial Sequence: pHL2969
 36 <400> SEQUENCE: 1
 37 cgtacgaagc ttctagaggg attggctgag acgaaaaaca tatgctagag ggattggctg 60
 38 agacgaaaaa catatgctag agcggccgccc accgcgggtg agctccagct tttgttccct 120
 39 ttagtgaggg ttaattgccc gcaggcctag ctaggtaaaag aaaaataccc ttgtttctac 180
 40 taataaccgc gcggcccaaa atgccgactc ggagcgaaaag atatacctcc cccggggccg 240
 41 ggaggtcgcg tcaccgacca cgcgcgcggc ccaggcgacg cgcgacacgg acacctgtcc 300
 42 ccaaaaaacg caccatcgca gccacacacg gagcgcccg ggccctctgg tcaaccccag 360
 43 gacacacgcg ggagcagcgc cgggcccggg acgcccctcc ggccgcccgt gccacacgca 420
 44 gggggccggc ccgtgtctcc agagcgggag ccggaagcat ttctggccgg cccctctac 480
 45 gaccgggaca cacgagggac cgaaggccgg ccaggcgcca cctctcgggc cgcacgcgcg 540
 46 ctccaggagc gctctccgac tccgcacggg gactcgccag aaaggatcgt gacctgcatt 600
 47 aatgaatcag gggataacgc aggaaagaac atgtgagcaa aaggccagca aaaggccagg 660
 48 aaccgtaaaa aggcgcggtt gctggcggtt ttccataggc tccgcccccc tgacgagcat 720
 49 cacaaaaatc gacgtcaag tcagaggtgg cgaaaccgca caggactata aagataccag 780
 50 gcgtttcccc ctggaagctc cctcgtgcgc tctctgttc cgaccctgcc gcttaccgga 840
 51 tacctgtccg cctttctccc ttccgggaagc gtggcgcttt ctcatagctc acgctgtagg 900
 52 tatctcagtt cgggtgtagt cgttcgctcc aagctggggt gtgtgcaaga acccccgtt 960
 53 cagcccagac gctgcgcctt atccggtaac tatcgtcttg agtccaaccc ggtaagacac 1020
 54 gacttatcgc cactggcagc agccactggt aacaggatta gcagagcgag gtatgtaggc 1080
 55 ggtgctacag agttcttgaa gtgggtggcct aactacggct acactagaag gacagtattt 1140
 56 ggtatctcgc ctctgctgaa gccagttacc ttcggaaaaa gagttggtag ctcttgatcc 1200
 57 ggcaaacaaa ccaccgctgg tagcgggtgtt tttttgttt gcaagcagca gattacgcgc 1260

Does Not Comply
 Corrected Diskette Needed

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/914,658B

DATE: 01/22/2003

TIME: 13:34:28

Input Set : N:\vernette\09914658B.RAW

Output Set: N:\CRF4\01222003\I914658B.raw

```

58 agaaaaaaag gatctcaaga agatcctttg atcttttcta cgggggtctga cgctcagtg 1320
59 aacgaaaact cacgttaagg gatttttggtc atgagattat caaaaaggat cttcacctag 1380
60 atccttttaa attaaaaatg aagtttttaa tcaatctaaa gtatatatga gtaaaacttg 1440
61 tctgacagtt accaatgctt aatcagtgag gcacctatct cagcgatctg tctatttcgt 1500
62 tcatccatag ttgcctgact ccccgctgtg tagataacta cgatacggga gggcctacca 1560
63 tctggcccca gtgctgcaat gataccgcga gacccacgct caccggctcc agatttatca 1620
64 gcaataaacc agccagccgg aaggggccgag cgcagaagtg gtccctgcaac tttatccgcc 1680
65 tccatccagt ctattaattg ttgcccggaa gctagagtaa gtagttcgcc agttaatagt 1740
66 ttgcgcaacg ttgttgccat tgctacaggc atcgtggtgt cagcctcgct gtttggtatg 1800
67 gcttcattca gctccggttc ccaacgatca aggcgagtta catgatcccc catgttggtg 1860
68 aaaaaagcgg ttagctcctt cggctcctcc atcgttgctc gaagtaagtt ggccgcagtg 1920
69 ttatcactca tggttatggc agcactgcat aattctctta ctgtcatgcc atccgtaaga 1980
70 tgcttttctg tgactggtga gtactcaacc aagtcattct gagaatagtg tatgcggcga 2040
71 ccgagttgct cttgcccgcc gtcaacacgg gataataccg cgccacatag cagaacttta 2100
72 aaagtgtctc tcatgggaaa acgttcttcg gggcgaaaac tctcaaggat cttaccgctg 2160
73 ttgagatcca gttcgatgta acccactcgt gcacccaact gatcttcagc atcttttact 2220
74 ttcaccagcg tttctgggtg agcaaaaaa ggaaggcaaa atgccgcaaa aaagggaata 2280
75 agggcgacac ggaaatgttg aatactcata ctcttccttt ttcaatatta ttgaagcatt 2340
76 tatcaggggt attgtctcat gagcggatac atatttgaat gtatttagaa aaataaacia 2400
77 aagagtttgt agaaacgcaa aaaggccatc cgtcaggatg gccttctgct taatttgatg 2460
78 cctggcagtt tatggcgggc gtcctgccc ccacctccg ggccgttgct tcgcaacggt 2520
79 caaatccgct cccggcggat ttgtctact caggagagcg ttcaccgaca aacaacagat 2580
80 aaaacgaaag gccagtcctt tgcactgagc ctttcgtttt atttgatgcc tggcagttcc 2640
81 ctactctcgc atggggagac cccacactac catcggcgtc acggcgcttc acttctgagt 2700
82 tcggcatggg gtcaggtggg accaccgcgc tactgcgcgc aggcaaatte tgttttatca 2760
83 gaccgcttct gcgttctgat ttaatctgta tcaggctgaa aatcttctct catccgcaa 2820
84 aacagaagct agcggccgat ccccaaaaaa aaaaaaaaac aaaaaaaaac gagtccagag 2880
85 tggcccccgc gttccgcgcc gggggggggg gggggggggg acactttcgg acatctggtc 2940
86 gacctccagc atcgggggaa aaaaaaaaac caaagtttcg ccggagtagc tggctgacct 3000
87 ccgaagtttg ggggggtag aaacagggtg gataatcact cactgacgta cgttgagcaa 3060
88 ctgactgaaa tgccttgagc aactgactga aatgcctgac gtcttttagc aaagcagggt 3120
89 agataatcac tcaactgagt acatccacat cgtaccagga ttggctgaga cgaaaaacat 3180
90 attgtaccag ggattggctg agacgaaaaa catattgtag gtacaaaaat gaacactcaa 3240
91 atcctggttt tcgcccctgc ggcagtcctc cccacaaatg cagacaaaat ttgtcttgga 3300
92 catcatgctg tatcaaatgg caccaaagta aacacactca ctgagagagg agtagaagtt 3360
93 gtcaatgcaa cggaaacagt ggagcggaca aacatcccca aaatttgctc aaaaggga 3420
94 agaaccactg atcttggcca atgcggactg ttagggacca ttaccggacc acctcaatgc 3480
95 gaccaatttc tagaattttc agctgatcta ataatcgaga gacgagaagg aaatgatgtt 3540
96 tgttaccogg ggaagtttgt taatgaagag gcattgcgac aaatcctcag aggatcaggt 3600
97 gggattgaca aagaacaat gggattcaca tatagtggaa taaggaccaa cggaacaact 3660
98 agtgcagtga gaagatcagg gtcttcattc tatgcagaaa tggagtggct cctgtcaaat 3720
99 acagacaatg cttctttccc acaaatgaca aaatcatata aaaacacagg gagagaatca 3780
100 gctctgatag tctggggaat ccaccattca ggatcaacca ccgaacagac caaactatat 3840
101 gggagtggaa ataaactgat aacagtcggg agttccaaat atcatcaatc ttttgtgccg 3900
102 agtccaggaa cagcaccgca gataaatggc cggctccggac ggattgattt tcattgggtg 3960
103 atcttggatc ccaatgatac agttactttt agtttcaatg gggctttcat agtccaaat 4020
104 cgtgccagct tcttgagggg aaagtccatg gggatccaga gcgatgtgca ggttgatgct 4080
105 aattgcgaag gggaatgcta ccacagtggg gggactataa caagcagatt gccttttcaa 4140
106 aacataaata gcagagcagt tggcaaatgc ccaagatatg taaaacagga aagtttatta 4200

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/914,658B

DATE: 01/22/2003

TIME: 13:34:28

Input Set : N:\vernette\09914658B.RAW

Output Set: N:\CRF4\01222003\I914658B.raw

```

107 ttggcaactg ggatgaagaa cgttcccga ccttccaaaa aaaggaaaaa aagaggcctg 4260
108 tttggtgcta tagcagggtt tattgaaaat ggttggaag gtctggtcga cgggtggtac 4320
109 ggtttcaggc atcagaatgc acaaggagaa ggaactgcag cagactacaa aagcacccaa 4380
110 tcggcaattg atcagataac cggaaagtta aatagactca ttaagaaaac caaccagcaa 4440
111 tttgagctaa tagataatga attcactgaa gtggaaaagc agattggcaa tttaattaac 4500
112 tggaccaaag actccatcac agaagtagt tcttacaatg ctgaacttct tgtggcaatg 4560
113 gaaaaccagc acactattga tttggctgat tcagagatga acaagctgta tgagcgagtg 4620
114 aggaacaatc taagggaaaa tgctgaagag gatggcactg gttgctttga aatttttcat 4680
115 aaatgtgacg atgattgtat ggctagtata aggaacaata cttatgatca cagcaaatac 4740
116 agagaagaag cgatgcaaaa tagaatacaa attgaccag tcaaattgag tagtggctac 4800
117 aaagatgtga tactttggtt tagcttcggg gcatcatgct ttttgcttct tgccattgca 4860
118 atgggccttg ttttcatatg tgtgaagaac ggaaacatgc ggtgcactat atgcatttaa 4920
119 agcttgcatg                                     4930
122 <210> SEQ ID NO: 2
123 <211> LENGTH: 5811
124 <212> TYPE: DNA
125 <213> ORGANISM: Artificial Sequence
127 <220> FEATURE:
128 <223> OTHER INFORMATION: Description of Artificial Sequence: pAM403
130 <400> SEQUENCE: 2
131 aattcctttg cctaatttaa atgaggactt aacctgtgga aatattttga tgtgggaagc 60
132 tgttactgtt aaaactgagg ttattggggt aactgctatg ttaaacttgc attcaggggac 120
133 acaaaaaact catgaaaatg gtgctggaaa acccattcaa ggggtcaaatt ttcatttttt 180
134 tgctgttggt ggggaacctt tggagctgca ggggtgtgta gcaaaactaca ggaccaaata 240
135 tcctgctcaa actgtaaccc caaaaaatgc tacagttgac agtcagcaga tgaacactga 300
136 ccacaaggct gttttggata aggataatgc ttatccagtg gagtgtctggg ttcctgatcc 360
137 aagtaaaaaat gaaaacacta gatatttttg aacctacaca ggtggggaaa atgtgcctcc 420
138 tgttttgcac attactaaca cagcaaccac agtgcttctt gatgagcagg gtgttggggc 480
139 cttgtgcaaa gctgacagct tgtatgtttc tgctgttgac atttgtgggc tgtttacca 540
140 cacttctgga acacagcagt ggaagggact tcccagatat tttaaaatta cccttagaaa 600
141 gcggtctgtg aaaaaccctt acccaatttc ctttttgta agtgacctaa ttaacaggag 660
142 gacacagagg gtggatgggc agcctatgat tggaatgtcc tctcaagtag aggaggttag 720
143 ggtttatgag gacacagagg agcttcttgg ggatccagac atgataagat acattgatga 780
144 gtttgacaaa accacaacta gaatgcagtg aaaaaaatgc tttatttggt aaatttggtg 840
145 tgctattgct ttatttgtaa ccattataag ctgcaataaa caagttaaca acaacaattg 900
146 cattcatttt atgtttcagg ttcaggggga ggtgtgggag gttttttaaa gcaagtaaaa 960
147 cctctacaaa tgtggtatgg ctgattatga tctctagtca aggactata catcaaata 1020
148 tccttattaa cccctttaca aattaaaaag ctaaaggtag acaatttttg agcatagtta 1080
149 ttaatagcag acactctatg cctgtgtgga gtaagaaaaa acagtatgtt atgattataa 1140
150 ctgttatgcc tacttataaa ggttacagaa tatttttcca taattttctt gtatagcagt 1200
151 gcagcttttt cttttgtggt gtaaatagca aagcaagcaa gagttctatt actaaacaca 1260
152 gcatgactca aaaaacttag caattctgaa ggaaagtcct tgggtcttc tacctttctc 1320
153 ttcttttttg gaggagtaga atgttgagag tcagcagtag cctcatcatc actagatggc 1380
154 atttcttctg agcaaaacag gttttcctca ttaaaggcat tccaccactg ctccattca 1440
155 tcagttccat aggttggaat ctaaaatata caaacaatta gaatcagtag tttaacacat 1500
156 tatacactta aaaattttat atttacctta gagctttaaa tctctgtagg tagttgttcc 1560
157 aattatgtca caccacagaa gtaaggttcc ttcacaaaga tccgggacca aagcgccat 1620
158 cgtgcctccc cactcctgca gttcgggggc atggatgcgc ggatagccgc tgctggttcc 1680
159 ctggatgccg acggatttgc actgccggtg gaactccgcg aggtcgtcca gcctcaggca 1740

```

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/914,658B

DATE: 01/22/2003
 TIME: 13:34:28

Input Set : N:\vernette\09914658B.RAW
 Output Set: N:\CRF4\01222003\I914658B.raw

```

160 gcagctgaac caactcgca ggggatcgag cccgggggtgg gcgaagaact ccagcatgag 1800
161 atccccgcgc tggaggatca tccagccggc gtcccggaaa acgattccga agcccaacct 1860
162 ttcataagaag gcggcggtgg aatcgaaatc tcgtgatggc aggttgggcg tcgcttggtc 1920
163 ggtcatttcg atgaattcga gtcggtacc cggggatcct ctagaggcat ttcagtttcg 1980
164 tcctcacgga ctcacagag ttgtcaatt cgaaccccag agtcccgtc agaagaactc 2040
165 gtcaagaagg cgatagaagg cgatgcgtg cgaatcgga gcggcgatac cgtaagcac 2100
166 gaggaagcgg tcagcccatt cgcgcgaag ctcttcagca atatcacggg tagccaacgc 2160
167 tatgtcctga tagcgggtccg ccacaccag ccggccacag tcgatgaatc cagaaaagcg 2220
168 gccattttcc accatgatata tcggcaagca ggcacgcca tgggtcacga cgagatcctc 2280
169 gccgtcgggc atgcgcgcct tgagcctggc gaacagttcg gctggcgcg gcccctgatg 2340
170 ctcttcgtcc agatcctcct gatcgacaag accggttcc atccgagtac gtgctcgctc 2400
171 gatgcgatgt ttcgcttggt ggtcgaatgg gcaggtagcc ggatcaagcg tatgcagccg 2460
172 ccgcattgca tcagccatga tggatacttt ctccggcagga gcaaggtag atgacaggag 2520
173 atcctgcccc ggcaacttgc ccaatagcag ccagtcctt cccgcttcag tgacaacgtc 2580
174 gagcacagct gcgcaaggaa cgcgcgtcgt ggccagccac gatagcccg ctgcctcgctc 2640
175 ctgcagttca ttcagggcac cggacaggtc ggtcttgaca aaaagaaccg ggcccccctg 2700
176 cgctgacagc cggaacacgg cggcatcaga gcagccgatt gtctgttggt cccagtcata 2760
177 gccgaatagc ctctccaccc aagcggccgg agaacctgcg tgcaatccat cttgttcaat 2820
178 catgcgaaac gatcctcatc ctgtctcttg atcagatctt gatccccctg gccatcagat 2880
179 ccttgccggc aagaaaagcca tccagtttac tttgcaggc ttcccaacct taccagaggg 2940
180 cgcgccagct ggcaattccg gttcgcttgc tgtccataaa accgccagct ctagctatcg 3000
181 ccatgtaagc ccactgcaag ctacctgctt tctctttgct cttgcgtttt ccctgtgcca 3060
182 gatagcccag tagctgacat tcatccgggg tcagcaccgt ttctgcggac tggctttcta 3120
183 cgtgttcgcg ttcctttagc agcccttgct ccctgagtg ttcgggcagc gtgaagcttt 3180
184 ttgcaaaaagc ctaggcctcc aaaaaagcct cctcactact tctggaatag ctcagaggcc 3240
185 gaggcggcct cggcctctgc ataaataaaa aaaattagtc agccatgggg cggagaatgg 3300
186 gcggaactgg gcggagttag gggcgggatg ggcggagtta ggggcgggac tatggttgct 3360
187 gactaattga gatgcatgct ttgcatactt ctgcctgctg gggagcctgg ggactttcca 3420
188 cacctggttg ctgactaatt gagatgcatg ctttgcatatc ttctgcctgc tggggagcct 3480
189 ggggactttc cacaccctaa ctgacacaca ttccacagct gcctgcgcg tttcgggtgat 3540
190 gacggtgaaa acctctgaca catgcagctc ccggagacgg tcacagcttg tctgtaagcg 3600
191 gatgccggga gcagacaagc ccgtcagggc gcgtcagcgg gtgttgggcg gtgtcggggc 3660
192 gcagccatga cccagtcacg tagcgatagc ggagtgtata ctggettac tatgcggcat 3720
193 cagagcagat tgtactgaga gtgcaccata tgccgtgtga aataccgcac agatgcgtaa 3780
194 ggagaaaata ccgcatcagg cgtcttccg ctctctcgct cactgactcg ctgcgctcg 3840
195 tcgttcggct gcggcgagcg gtatcagctc actcaaaggc ggtaatacgg ttatccacag 3900
196 aatcagggga taacgcagga aagaacatgt gagcaaaagg ccagcaaaag gccaggaacc 3960
197 gtaaaaaggc cgcgttgctg gcgtttttcc ataggctccg cccccctgac gagcatcaca 4020
198 aaaatcgacg ctcaagtcag aggtggcgaa acccgacagg actataaaga taccaggcgt 4080
199 ttccccctgg aagctccctc gtgcgctctc ctgttccgac cctgccgctt accggatacc 4140
200 tgtccgcctt tctcccttcg ggaagcgtgg cgttttctca tagctcacgc tgtaggtatc 4200
201 tcagttcggt gtaggtcgtt cgctccaagc tgggctgtgt gcacgaacct cccgttcagc 4260
202 ccgaccgctg cgccttatcc ggttaactatc gtcttgagtc caaccggta agacacgact 4320
203 tatcgccact ggcagcagcc actggtaaca ggattagcag agcgaggtat gtaggcggtg 4380
204 ctacagagtt cttgaagtgg tggcctaact acggctacac tagaaggaca gtatttggtg 4440
205 tctgcgctct gctgaagcca gttaccttcg gaaaaagagt tggtagctct tgatccggca 4500
206 aacaaaccac cgctggtagc ggtggttttt ttgtttgcaa gcagcagatt acgcgcagaa 4560
207 aaaaaggatc tcaagaagat ctttgatct tttctacggg gtctgacgct cagtggaaac 4620
208 aaaactcacg ttaagggatt ttggtcatga gattatcaaa aaggatcttc acctagatcc 4680

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/914,658B

DATE: 01/22/2003

TIME: 13:34:28

Input Set : N:\vernette\09914658B.RAW

Output Set: N:\CRF4\01222003\I914658B.raw

```

209 ttttaaatta aaaatgaagt tttaaatcaa tctaaagtat atatgagtaa acttggtctg 4740
210 acagttacca atgcttaatc agtgaggcac ctatctcagc gatctgtcta tttcgttcat 4800
211 ccatagttgc ctgactcccc gtctgttaga taactacgat acgggagggc ttaccatctg 4860
212 gccccagtgc tgcaatgata ccgcgagacc cacgctcacc ggctccagat ttatcagcaa 4920
213 taaaccagcc agccggaagg gccgagcgca gaagtgggcc tgcaacttta tccgcctcca 4980
214 tccagttctat taattgttgc cgggaagcta gagtaagtag ttcgccagtt aatagtttgc 5040
215 gcaacgttgt tgccattgct gcaggcatcg tgggtgcacg ctctgctgtt ggtatggctt 5100
216 cattcagctc cggttcccaa cgatcaaggc gagttacatg atcccccatg ttgtgcaaaa 5160
217 aagcggttag ctctctcggt cctccgatcg ttgtcagaag taagttggcc gcagtgttat 5220
218 cactcatggt tatggcagca ctgcataatt ctcttactgt catgccatcc gtaagatgct 5280
219 tttctgtgac tgggtgagtac tcaaccaagt cattctgaga atagtgtatg cggcgaccga 5340
220 gttgctcttg cccggcgctc acacgggata ataccgcgcc acatagcaga actttaaaag 5400
221 tgctcatcat tggaaaacgt tcttcggggc gaaaactctc aaggatctta ccgctgttga 5460
222 gatccagttc gatgtaaccc actcgtgcac ccaactgatc ttcagcatct tttactttca 5520
223 ccagcgtttc tgggtgagca aaaacaggaa ggcaaaatgc cgcaaaaaag ggaataaagg 5580
224 cgacacggaa atgttgaaata ctcatactct tcctttttca atattattga agcatttatc 5640
225 agggttattg tctcatgagc ggatacatat ttgaatgtat ttgaaaaaat aaacaaatag 5700
226 gggttccgcg cacatttccc cgaaaagtgc cacctgacgt ctaagaaacc attattatca 5760
227 tgacattaac ctataaaaat aggcgtatca cgaggccctt tcgtcttcaa g 5811
230 <210> SEQ ID NO: 3
231 <211> LENGTH: 2005
232 <212> TYPE: DNA
233 <213> ORGANISM: Artificial Sequence
235 <220> FEATURE:
236 <223> OTHER INFORMATION: Description of Artificial Sequence: vHM41
238 <400> SEQUENCE: 3
239 agtagaaaca agggattttt tctttacctt gctaggcctg cgcgcaatta accctcacta 60
240 aagggaacaa aagctggagc tccaccgcgg tggcgccgcg tctagcatat gtttttcgtc 120
241 tcagccaatc cctctagcat atgtttttcg tctcagccaa tccctctaga agcttcgtac 180
242 gcatgcaagc tttaaatgca tatagtgcac cgcattgttc cgttcttcac acatatgaaa 240
243 acaaggccca ttgcaatggc aagaagcaaa aagcatgatg ccccgaagct aaaccaaagt 300
244 atcacatctt tgtagccact actcaatttg actgggtcaa tttgtattct attttgcac 360
245 gcttcttctc tgtatttgct gtgatacata gtattgttcc ttatactagc catacaatca 420
246 tcgtcacatt tatgaaaaat ttcaaagcaa ccagtgccat cctcttcagc attttccctt 480
247 aattgtttcc tcaactcgctc atacagcttg ttcattctctg aatcagccaa atcaatagt 540
248 tgctgggttt ccattgccac aagaagttca gcattgtaag accatacttc tgtgatggag 600
249 tctttgggtc agttaattaa attgccaatc tgcttttcca cttcagtga ttcattatct 660
250 attagctcaa attgctgggt ggtttttctt atgagtctat ttaactttcc ggttatctga 720
251 tcaattgccg attgggtgct tttgtagtct gctgcagttc cttctccttg tgcattctga 780
252 tgctgaaac cgtaccaccc gtcgaccaga ccttcccaac cattttcaat aaacctgct 840
253 atagaccaa acaggcctct ttttttccct tttttggaag gttcgggaac gttcttcac 900
254 ccagttgcca ataataaaact ttctgtttt acatatcttg ggcatttgcc ctccactgtg gtagcattcc 1020
255 ctatttatgt tttgaaaagg caatctgctt gttatagtcc ctctggatcc ccatggactt tcccctcaag 1080
256 ccttcgcaat tagcatcaac ctgcacatcg cctctggatcc ccattgaaac taaaagtaac tgtatcattg 1140
257 aagctggcac gatttgagc tatgaaagcc ccattgaaac taaaagtaac tgtatcattg 1140
258 ggatccaaga tcaaccaatg aaaatcaatc cgtccggacc ggccatttat ctgcggtcgt 1200
259 gttcctggac tcggcacaaa agattgatga tatttggaac tcccgaactgt tatcagttta 1260
260 tttccactcc catatagttt ggtctgttgc gtggttgatc ctgaatggtg gattccccag 1320
261 actatcagag ctgattctct ccctgtgttt ttgtatgatt ttgtcatttg tgggaaagaa 1380

```

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/914,658B

DATE: 01/22/2003
TIME: 13:34:29

Input Set : N:\vernette\09914658B.RAW
Output Set: N:\CRF4\01222003\I914658B.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:11; N Pos. 1,2
Seq#:17; N Pos. 12,13
Seq#:19; N Pos. 14,15,16
Seq#:20; N Pos. 14,15,16
Seq#:21; N Pos. 12,13,14,15,16
Seq#:23; N Pos. 1,2,3
Seq#:24; N Pos. 1,2,3
Seq#:25; N Pos. 1,2,3,4,5

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 1

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/914,658B

DATE: 01/22/2003

TIME: 13:34:29

Input Set : N:\vernette\09914658B.RAW

Output Set: N:\CRF4\01222003\I914658B.raw

L:16 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:18 M:280 W: Numeric Identifier already exists, <140> found multiple times
L:18 M:281 W: Numeric Fields not Ordered, <140> not ordered!.
L:18 M:270 C: Current Application Number differs, Replaced Current Application Number
L:19 M:280 W: Numeric Identifier already exists, <141> found multiple times
L:19 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:756 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:828 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:852 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:868 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:884 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
L:913 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
L:929 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0
L:946 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0